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| 09/470,645 | 12/22/1999 | NICK N. NIKOLS | 26530.6 | 6402 |
| 45842 | 7590 | 01/24/2006 | EXAMINER | |
| MARGER JOHNSON & MCCOLLOM, P.C. - NOVELL | | | CAO, DIEM K | |
| 1030 SW MORRISON STREET | | | ART UNIT | |
| PORTLAND, OR 97205 | | | PAPER NUMBER | |
| | | | 2194 | |

DATE MAILED: 01/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/470,645

Applicant(s)

NIKOLS ET AL.

Examiner

Diem K. Cao

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7,9,11,15,18-20,22,26,27 and 29-41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7,9,11,15,18-20,22,26,27 and 29-41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.


Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 7, 9, 11, 15, 18-20, 22, 26-27 and 29-41 are pending.
2. In view of the Appeal Brief filed on 10/5/2005, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2194

4. Claims 7, 9, 11, 15, 18-20, 22, 26-27 and 29-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meltzer et al. (U.S. 6,125,391) in view of Straube et al. (U.S. 6,446,077) further in view of Cronin et al. (U.S. 6,772,396 B1).

5. As to claim 7, Meltzer teaches receiving an event from a server into an XML generator (registration acknowledgment ... to a document format; col. 83, lines 62-64 and document to host and host to document translation; col. 82, lines 26-57), converting the event into XML data representing the event (the registration acknowledgment data is converted to a document format; col. 83, lines 63-64), transforming the XML data representing the event to a first predetermined format by a transformation processor using a transformation file (translating ... host system; col. 23, lines 51-63 and translator module 302; col. 23, lines 51-63), the first predetermined format being responsive to a first application running in the computer network (translating ... host system; col. 23, lines 51-63), transmitting the transformed XML data representing the event to the first application (commercial functions 305, database functions 306, etc.; col. 23, line 64 – col. 24, line 53).

6. Although Meltzer does not explicitly teach transforming the XML data representing the event to a second predetermined format by the transformation processor using a second stylesheet, the second predetermined format being responsive to a second application running in the computer network, and transmitting the transformed XML data representing the event to the second application, these limitations are inherently taught in the system of Meltzer because there are multiple participants in the system, and the routing process of the market maker node capable

Art Unit: 2194

of transform an input document into documents for multiple processes before routing them to other node (The routing process ...is to be routed; col. 7, lines 6-9 and col. 8, lines 3-6).

7. However, Meltzer does not teach a distributed directory, the distributed directory including a reference to at least one resource on one of at least two computers on the computer network, an event representing a change to the distributed directory, transforming the XML data to a predetermined format using a stylesheet. Meltzer suggests the transforming the XML data to Java format or any other capable format (Such front ends ... across a network; col. 3, lines 49-52). Straube teaches a distributed directory, the distributed directory including a reference to at least one resource on one of at least two computers on the computer network (col. 5, lines 11-31), an event representing a change to the distributed directory (col. 5, lines 52-55 and col. 6, line 49 – col. 7, line 2), and send a message regarding the change in the distributed directory to other systems (col. 7, lines 2-7). Cronin teaches transforming the XML data to a predetermined format using a stylesheet (col. 7, lines 44-58 and col. 12, lines 24-29).

8. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Meltzer, Cronin, and Straube because it provides a method to sending information to the target applications in their own formats (Cronin reference, abstract) and apply the well known technique to new area, distributed directory so the information could be exchange between applications and directories.

Art Unit: 2194

9. As to claim 9, Meltzer does not explicitly teach receiving updates to the first stylesheet responsive to any changes in either the distributed directory or the first application. Cronin teaches the stylesheet contains any desired customization options for the target site (col. 7, line 56 – col. 8, line 10). It would have been obvious to one of ordinary skill in the art when the first application changes its desired layout, the stylesheet must also be changed to reflect the change in the layout.

10. As to claim 11, Meltzer teaches instruction for detecting the second event through notification from an event handler of the distributed directory (event listener; col. 10, lines 46-65 and Fig. 11).

11. As to claim 26, Meltzer as modified teaches transmitting the transformed XML data representing the first event to the first application includes transmitting the transformed XML data representing the event to the first application through a first application shim to provide the transformed XML data representing the first event to the first application by using a first native application program interface for the first application (transaction processing front end; col. 23, line 51 – col. 24, line 53). Meltzer inherently teaches transmitting the transformed XML data representing the second event to the second application includes transmitting the transformed XML data representing the event to the second application through a second application shim to provide the transformed XML data representing the second event to the second application by using a second native application program interface for the second application because there are multiple participants in the system, and the routing process of the market maker node capable of

Art Unit: 2194

transform an input document into documents for multiple processes before routing them to other node (The routing process ... is to be routed; col. 7, lines 6-9 and col. 8, lines 3-6).

12. As to claim 27, Meltzer teaches the first predetermined format and the second predetermined format are the same predetermined format (Java format; col. 3, lines 49-52).

13. As to claim 15, Meltzer teaches receiving a first event from a first application in a first native application format (input document is received at the network interface from an originating participant node; col. 83, lines 29-44), converting the first event into markup language data (all the document received in non-XML syntaxes are translated into XML; col. 84, lines 16-33), transforming the first event to a predetermined format by a transformation processor using a profile (the XML documents are passed to the processor 1502 which translates them into the JAVA format; col. 84, lines 45-47), the predetermined format being responsive to the server (the document is translated to the format of the host, for example XML to JAVA; col. 83, lines 29-44), transmitting the transformed first event to the distributed directory (document service, back end system; col. 84, lines 50-67).

14. Although Meltzer does not teach receiving a second event from a second application in a second native application format, the second event representing a second change to the distributed directory, converting the second event into markup language data, transforming the second event to the predetermined format by the transformation processor using the transformation profile, and transmitting the transformed second event to the distributed directory,

Art Unit: 2194

these limitations are inherently taught by Meltzer because there are multiple participants in the system, and all the documents received are translated to the language of the server.

15. However, Meltzer does not teach a distributed directory, the distributed directory including a reference to at least one resource on one of at least two computers on the computer network, an event representing a first change to the distributed directory, the transformation profile including formatting instructions for transforming the markup language data to the predetermined format. Straube teaches a distributed directory, the distributed directory including a reference to at least one resource on one of at least two computers on the computer network (col. 5, lines 11-31), an event representing a change to the distributed directory (col. 5, lines 52-55 and col. 6, line 49 – col. 7, line 2), and send a message regarding the change in the distributed directory to other systems (col. 7, lines 2-7). Cronin teaches the transformation profile including formatting instructions for transforming the markup language data to the predetermined format (col. 7, line 56 – col. 8, line 10).

16. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Meltzer, Cronin, and Straube because it provides a method to sending information to the target applications in their own formats (Cronin reference, abstract) and apply the well known technique to new area, distributed directory so the information could be exchange between applications and directories.

Art Unit: 2194

17. As to claim 32, Meltzer teaches detecting an event in the server (the router 1104, participant registry, document filter, listeners; col. 82, lines 26-50 and event listener; col. 10, lines 46-65 and Fig. 11 and registration acknowledgment ... to a document format; col. 83, lines 62-64 and document to host and host to document translation; col. 82, lines 26-57), transforming the event to the first predetermined format by using a transformation tool and the profile (translating ... host system, BID data; col. 23, lines 51-63 and translator module 302; col. 23, lines 51-63), providing to the first application the event transformed to the first predetermined format (commercial functions 305, database functions 306, etc.; col. 23, line 64 – col. 24, line 53).

18. However, Meltzer does not teach a distributed directory, the distributed directory including a reference to at least one resource on one of at least two computers on the computer network, an event representing a change to the distributed directory, providing a first transformation profile defining a first predetermined format for use by a first application, providing a second transformation profile defining a second predetermined format for use by a second application, and transforming the event to the first predetermined format using the first transformation profile, and transforming the event to the second predetermined format using the second transformation profile. Straube teaches a distributed directory, the distributed directory including a reference to at least one resource on one of at least two computers on the computer network (col. 5, lines 11-31), an event representing a change to the distributed directory (col. 5, lines 52-55 and col. 6, line 49 – col. 7, line 2), and send a message regarding the change in the distributed directory to other systems (col. 7, lines 2-7). Cronin teaches providing a first

Art Unit: 2194

transformation profile defining a first predetermined format for use by a first application, providing a second transformation profile defining a second predetermined format for use by a second application (style sheets; col. 7, line 50 – col. 8, line 10), and transforming the event to the first predetermined format using the first transformation profile, and transforming the event to the second predetermined format using the second transformation profile (The dynamic binder ... in style sheets 180; col. 7, lines 50-53 and col. 12, lines 24-29).

19. Although Meltzer does not explicitly teach transforming the event to the second predetermined format by using the transformation tool and the second transformation profile, and providing to the second application the event transformed to the second predetermined format, they are inherently taught by Meltzer and Cronin because there are multiple participants in the system, and the routing process of the market maker node capable of transform an input document into documents for multiple processes before routing them to other node (The routing process ... is to be routed; col. 7, lines 6-9 and col. 8, lines 3-6).

20. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Meltzer, Cronin, and Straube because it provides a method to sending information to the target applications in their own formats (Cronin reference, abstract) and apply the well known technique to new area, distributed directory so the information could be exchange between applications and directories.

Art Unit: 2194

21. As to claim 33, Meltzer teaches converting the event to a generic data description before transforming the event to the first predetermined format and the second predetermined format (the registration acknowledgment data is converted to a document format; col. 83, lines 63-64).

22. As to claim 34, Meltzer teaches providing an application shim for the first application to receive the event transformed to the first predetermined format and to provide the event to the first application by using a native application program interface for the first application (transaction processing front end; col. 23, line 51 – col. 24, line 53).

23. As to claim 35, Meltzer teaches updating the application shim and the first transformation profile responsive to changes in the first application (the business interface ... kept up to date; col. 25, lines 34-43). Also see rejection of claim 9 above.

24. As to claim 36, Meltzer teaches providing a second application shim for the second application to receive the event transformed to the second predetermined format and to provide the event to the second application by using a second native application program interface for the second application (transaction processing front end; col. 23, line 51 – col. 24, line 53).

25. As to claim 37, see rejection of claim 35 above.

26. As to claim 38, Meltzer does not teach the transformation profile includes a stylesheet. Cronin teaches the transformation profile includes a stylesheet (style sheet; col. 7, lines 50-53).

27. As to claim 39, Meltzer does not teach the transformation profile is stored in the directory. Cronin teaches the transformation profile is stored in the computer (col. 7, lines 48-53). It would have been obvious to one of ordinary skill in the art the transformation profile could be stored in the server in the system of Meltzer because it would be faster to retrieve and apply the stylesheet to the event.

28. As to claim 40, see rejections of claims 32 and 33 above.

29. As to claim 41, Meltzer teaches a generator to receive an application event from the first application (incoming data; col. 84, lines 16-39) and to generate a second generic data for the application event (All the documents received in non-XML syntaxes are translated into XML; col. 84, lines 30-39), the transformation processor is operative to transform the second generic data for the application event into a directory data (An XML instance is translated to Java instance; col. 84, lines 40-45), and a receiver to receive the directory data in the directory (The Java beans are passed to the document router ... solution software; col. 84, lines 50-63).

30. As to claim 18, Meltzer teaches a first processor (market maker 15 node, computer, processor; col. 9, lines 9-44) connected to a network (internet 19; col. 9, lines 9-44) for executing computer code (computer program; col. 9, lines 9-44), a second processor (market participant 12, computer, processor; col. 9, lines 9-44) connected to the network (internet 19; col. 9, lines 9-44) for executing computer code (computer program; col. 9, lines 9-44), a first memory

Art Unit: 2194

connected to the first processor (memory; col. 9, lines 9-44), a second memory connected to the second processor (memory; col. 9, lines 9-44), a market maker, a portion of which being stored in the first memory (the market maker nodes include ... BID registry; col. 9, lines 35-37), an application (market participants), a portion of which being stored in the second memory (market participants include resources ... to be traded; col. 9, lines 29-34), software for detecting an event in the server (the router 1104, participant registry, document filter, listeners; col. 82, lines 26-50 and event listener; col. 10, lines 46-65 and Fig. 11), software for transforming the event to the first predetermined format by using a generic transformation tool (translating ... host system; col. 23, lines 51-63 and translator module 302; col. 23, lines 51-63), software for providing to the first application the directory event transformed to the first predetermined format (commercial functions 305, database functions 306, etc.; col. 23, line 64 – col. 24, line 53).

31. However, Meltzer does not teach a distributed directory wherein the first and second portions of the distributed directory are stored in the first memory and the second memory, the directory event representing a change to the distributed directory, providing a first transformation profile defining a first predetermined format for use by the first application, providing a second transformation profile defining a second predetermined format for use by the second application, and transforming the event to the first predetermined format using the first transformation profile, and transforming the event to the second predetermined format using the second transformation profile. Straube teaches a distributed directory, the distributed directory including a reference to at least one resource on one of at least two computers on the computer network (col. 5, lines 11-31), an event representing a change to the distributed directory (col. 5, lines 52-

Art Unit: 2194

55 and col. 6, line 49 – col. 7, line 2), and send a message regarding the change in the distributed directory to other systems (col. 7, lines 2-7), a mechanism to enable clients to read information from a server directory while another client is attempting to update information (col. 5, lines 52-67). Cronin teaches providing a first transformation profile defining a first predetermined format for use by a first application, providing a second transformation profile defining a second predetermined format for use by a second application (style sheets; col. 7, line 50 – col. 8, line 10), and transforming the event to the first predetermined format using the first transformation profile, and transforming the event to the second predetermined format using the second transformation profile (The dynamic binder ... in style sheets 180; col. 7, lines 50-53 and col. 12, lines 24-29).

32. Although Meltzer does not explicitly teach transforming the event to the second predetermined format by using the transformation tool and the second transformation profile, and providing to the second application the event transformed to the second predetermined format, they are inherently taught by Meltzer and Cronin because there are multiple participants in the system, and the routing process of the market maker node capable of transform an input document into documents for multiple processes before routing them to other node (The routing process ... is to be routed; col. 7, lines 6-9 and col. 8, lines 3-6).

33. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Meltzer, Cronin and Straube because it provides a method to sending information to the target applications in their own formats (Cronin reference, abstract)

Art Unit: 2194

and apply the well known technique to new area, distributed directory so the information could be exchange between applications and directories.

34. As to claim 19, Meltzer as modified teaches software for converting the directory event to a generic data description before transforming the directory event (the registration acknowledgment data is converted to a document format; col. 83, lines 63-64).

35. As to claim 20, Meltzer as modified teaches an application shim for the first application to receive the transformed directory event and provide the directory event to the first application by using a first native application interface for the first application (transaction processing front end; col. 23, line 51 – col. 24, line 53).

36. As to claim 22, Meltzer as modified teaches (col. 82, lines 26-50) the generic transformation tool utilizes a markup language (XML document) and the software for transforming the directory event utilizes a transformation processor (a document to host and host to document translator).

37. As to claim 29, Meltzer as modified teaches a directory profile for use by the distributed directory (BID data; col. 84, lines 34-43), software for detecting an application even in the first application (event listeners; col. 26, lines 40-57), software for transforming the application event to the directory predetermined format by using the generic transformation tool and the directory profile (A business interface definition compiler ... into the JAVA format; col. 84, lines 38-47),

Art Unit: 2194

and software for providing the transformed application event to the distributed directory (document router 1503, event listener, document service; col. 84, lines 47-67).

38. However, Meltzer does not teach a directory transformation profile defining a directory predetermined format for use by the distributed directory. Cronin teaches the transformation profile defining a predetermined format for use by each target server (col. 7, line 56 – col. 8, line 10).

39. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Meltzer, Cronin, and Straube because it provides a method to sending information to the target applications in their own formats (Cronin reference, abstract) and apply the well known technique to new area, distributed directory so the information could be exchange between applications and directories.

40. As to claim 30, see rejection of claim 29 above except the event is from the second application.

41. As to claim 31, Meltzer teaches a second application shim for the second application to receive the transformed directory event to the second application by using a second native application program interface for the second application (transaction processing front end; col. 23, line 51 – col. 24, line 53).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diem K. Cao whose telephone number is (571) 272-3760. The examiner can normally be reached on Monday - Friday, 5:30AM - 2:00PM.

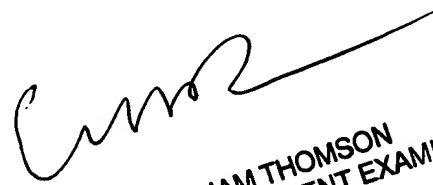
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on (571) 272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist at 571-272-2100.

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